

April 5, 2019

By: Joseph C Hines, PE, MBA

Principal – Economic Development & Infrastructure





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#### Overview / Agenda

- Overview of Timmons Group
- Trends in Economic Development & Site Selection
- Global & Regional Infrastructure Assets
- Energy Infrastructure
- Electrical Infrastructure
- Digital Infrastructure
- Port Infrastructure
- Railroad Infrastructure
- Preparing for Economic Development Success

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Engineering (20) 
Engineering & Technology
(23) 
Total: 31 48 states from 2014 to 2018 TIMMONS GROUP

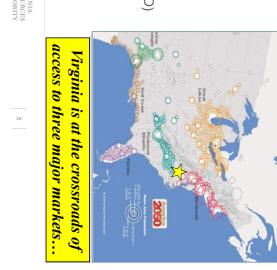
### What drives **Prospect Location Decisions?**

- Access to Markets
- Workforce
- ✓ Logistics Infrastructure
- ✓ Transportation Costs
- Drayage for Trucking
- Shipping Costs
- Total Costs of Ownership (TCO)

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- Energy Costs

- Electrical & Natural Gas
- Utility Costs
- Tax Rates
- Capital Investment



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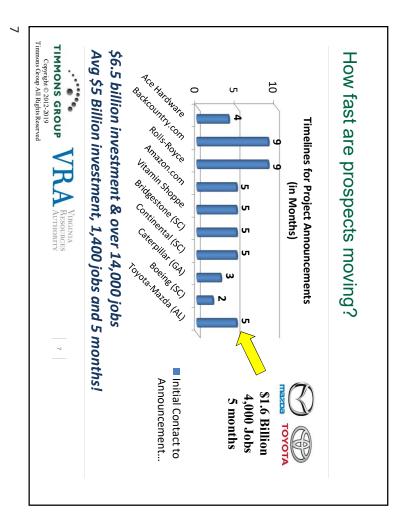
#### $\triangleright$ Trends in Economic Development & Site Consultant's Perspective.... Selection

- Logistics & Workforce Analysis Completed First
- Prospects & consultants look at STATES & REGIONS, NOT sites or localities
- Speed to market matters Projects move in MONTHS, not years
- "Ready to go" & Publicly Controlled Sites Rule
- Incentives do matter, AFTER you become a FINALIST

100% of your success is 70-80% out of your control...

Control what you can — your Sites and Infrastructure!

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"Pre-Prospect" Planning vs. "Post-Prospect" **Execution** 

to give you best odds of success to close the deal obstacles as practical & address all potential development scenarios (timing & costs) "Pre-Prospect" Planning: Remove as many unknowns / development

- Due Diligence (Site Eliminators)
- Master Planning Process & Build-out Analysis (Maximum Footprint & Build-out)
- Align Infrastructure & Site Requirements with Target Industries
- Definition of Site & Infrastructure Development Costs
- Timelines for Implementation (ideally 12 months or less)
- Address Cultural Resource & Permitting Issues up-front



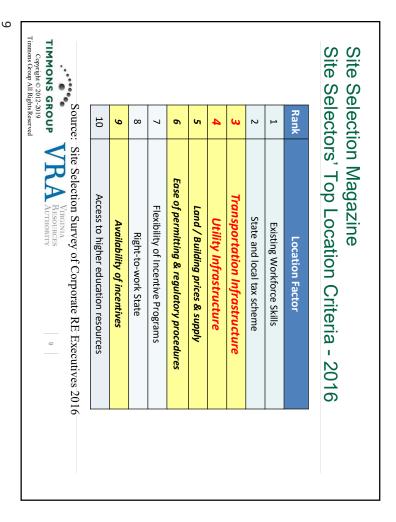
and show how the site & infrastructure can work for their project "Post-Prospect" Execution: Respond to Prospect inquiries within 48-72 hrs

- 3D Visualization & Site Schematics
- Responsiveness to RFI's
- **Deal Closing**



Infrastructure planning is key to **Economic Development Success** 

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The Infrastructure Big Picture & How does it impact

Economic Development Success?

- Energy Infrastructure
- Natural Gas Pipelines
- Electrical Infrastructure
- Electric Service Territories
- Digital Infrastructure
- Va Beach Cable Landing Station
- Fiber Infrastructure
- Port Infrastructure
- East Coast Ports
- Virginia Port Authority
- Railroad Infrastructure
- Precision Railroading
- NS Heartland Corridor & CSX National Gateway

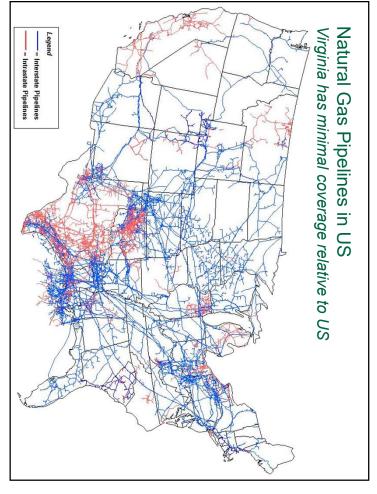


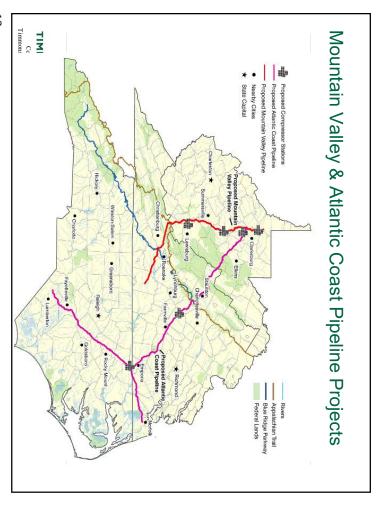
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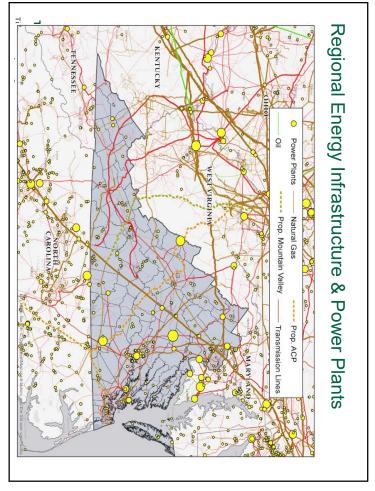
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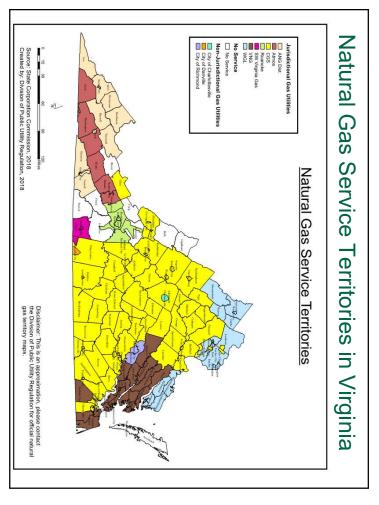
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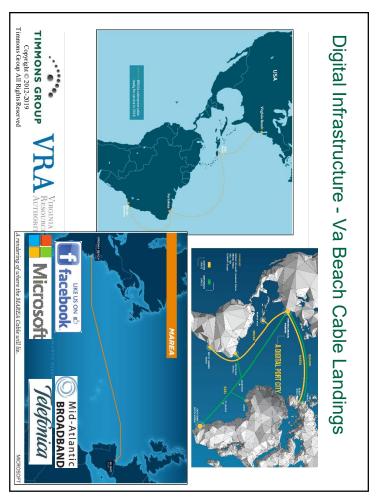


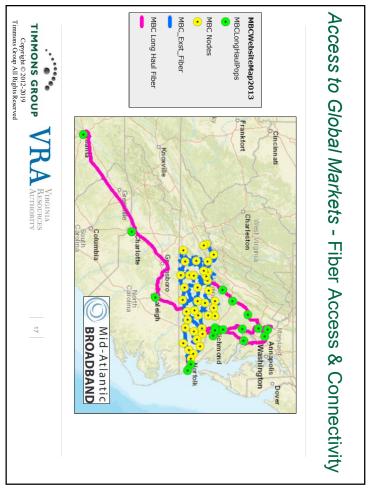


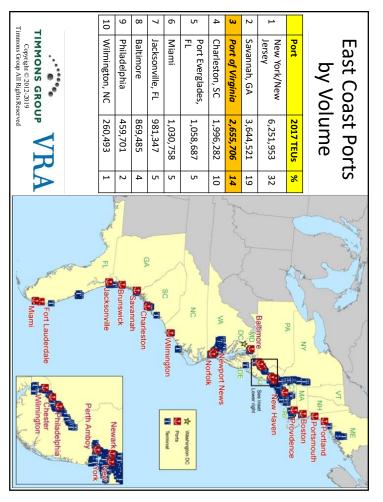




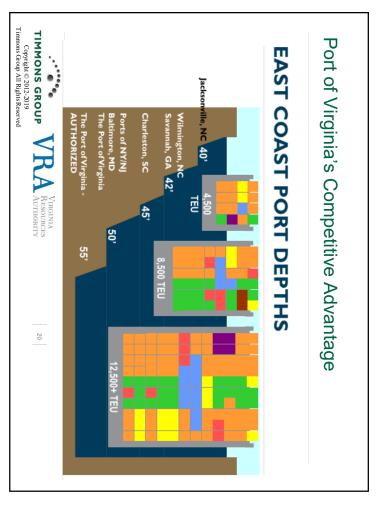


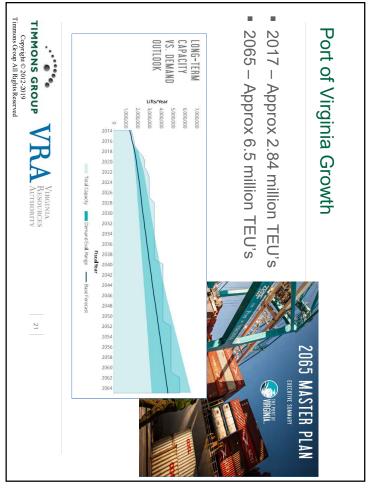


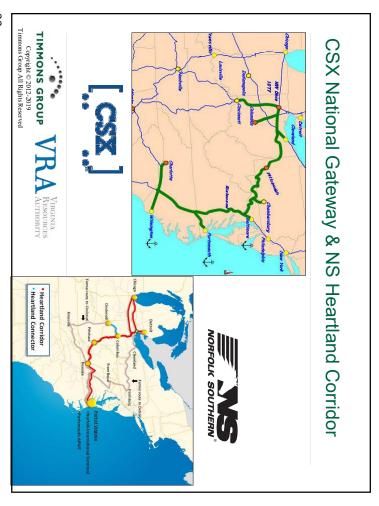












## Precision Railroading - Savoir or Villain?

#### 5 Key Principles

Introduction to precision railroading, part 1: the industry's savior or villain. Take your

- Prioritize delivery on fixed point to point schedules while minimizing in-transit work events
- Strict cost control across the organization
- ✓ Optimize Utilization of rail cars and locomotive power
- ✓ Operational safety
- ✓ Value, develop and empower employees



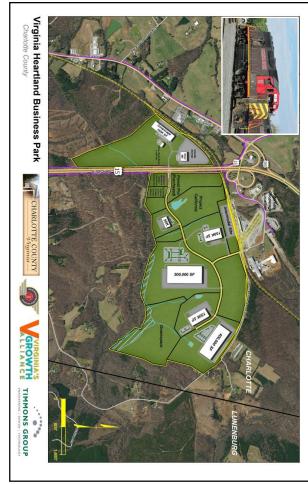
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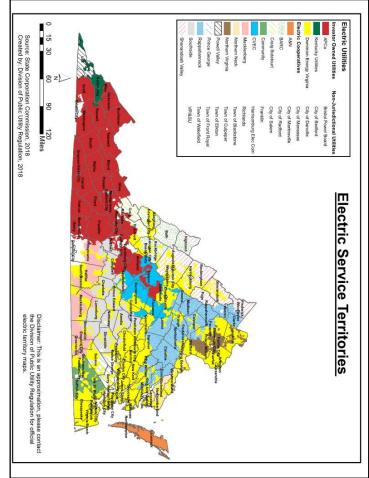
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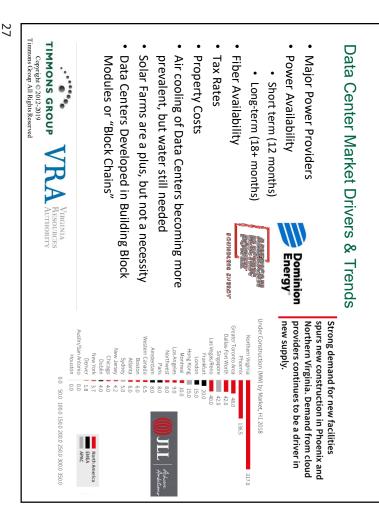
# Get to know your short-line rail companies!







Elec Providers Coverage  Dominion – 26.2%  AEP – 24.9%  Rappahannock – 9.9%  Southside – 7.6%  Shenandoah Valley – 6.1%  Notable:	Electric Provider in Virginia  Dominion APCO Rappahannock Southside Shenandoah Valley Mecklenburg CVEC BARC Craig Botetourt Community Northern Virginia Prince George ANEC Northern Meck Kentucky Utilities City of Danville Powell Valley City of Danville	Service Area (Sq MI)         % of Virginia           10,413         26.2%           9,884         24.9%           3,957         9.9%           3,016         7.6%           2,426         6.1%           1,809         4.5%           1,290         3.2%           773         1.9%           679         1.7%           678         1.7%           587         1.5%           587         1.4%           438         1.1%           431         1.1%           1.1%         1.1%           1.2%         1.1%	% of Virgini, 26.2% 24.9% 9.9% 6.1% 4.5% 4.0% 3.2% 3.2% 1.7% 1.7% 1.7% 1.12% 1.12% 1.13%
Dominion – 26.2% AEP – 24.9%	Mecklenburg CVEC BARC Craig Botetourt Community	1,809 1,609 1,290 773 679	4.5% 4.0% 3.2% 1.9%
Rappahannock – 9.9% Southside – 7.6%	Northern Virginia Prince George ANEC Northern Neck	587 552 478	1.7% 1.5% 1.4% 1.2%
Shenandoah Valley $-6.1\%$ Notable:	Kentucky Utilities City of Danville Powell Valley City of Bedford	438 431 382 122	1.1% 1.1% 1.0%
NOVEC – 1.7% (Data Centers)	Bristol Power Board Franklin Harrisonburg Electric Cooperative	120 120 37 18	0.3% 0.1% 0.0%
BOUNDLESS INSERTY Energy	City of Salem City of Martinsville Town of Front Royal City of Manassas City of Radford TownofCulpeper VPI8SU Trums of Placenters	14 11 10 8 8 7 7	0.0% 0.0% 0.0% 0.0% 0.0%
TIMMONS GROUP Copyright © 2012-2019 Timmons Group All Rights Reserved	rown or blackstone Richlands none Town of Elkton Town of Wakefield Grand Total	3 1 1 1 1 39,773	0.0% 0.0% 0.0% 0.0% 0.0%



Data Centers & Solar Farms (Apple in NC)

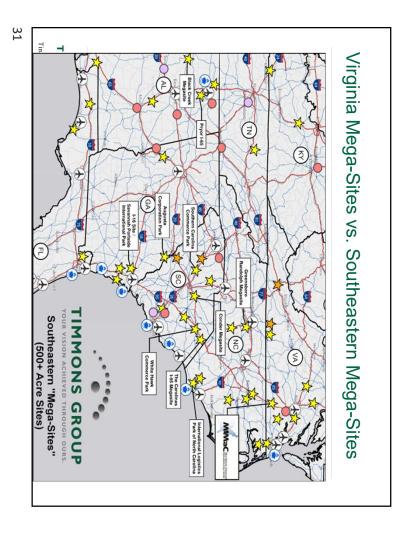




# 2019 Legislation that could help infrastructure...

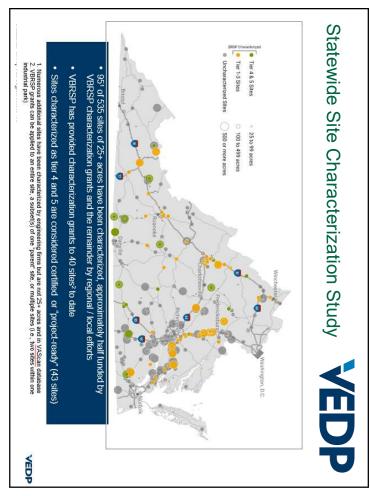
- HB1840 (Marshall), which allows a pilot program to facilitate construction of electric transmission facilities to Business parks
- SB 1695 (Wagner) and HB 2738 (Bagby) which allows acquisition utilities (Applies to multiple utilities - NG, power, etc.) of rights-of-way for economic development sites for public

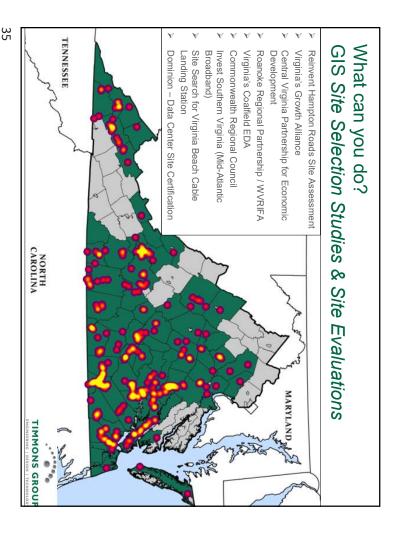




Demand TIMMONS GROUP
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Timmons Group All Rights Reserved Market Site & Infrastructure Development Preparing for Local Economic Development Success Master Plan / Due Diligence Site Selection / Site Control / Zoning Site Negotiation Identification Infrastructure <12 mo Shovel / Pad Ready Tier 2 Have Nothing & Need to Find Sites Tier 3 Raw land, Willing Seller, No Control Site controlled, Zoned/Comp plan minimal due diligence Master Plan, Estimated Costs, Significant due diligence Certifiable Site, Infrastructure, Property issues cleared "Ready to construct", Permits in hand 32







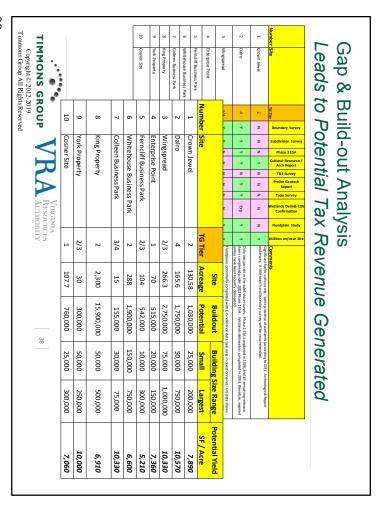
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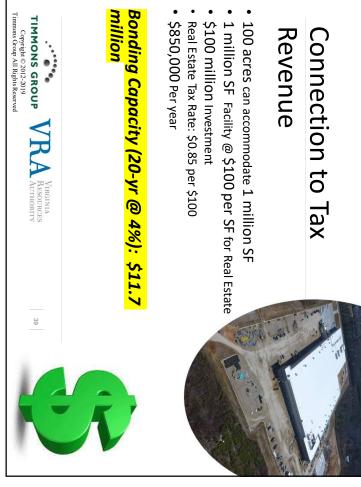
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Timmons Group All Rights Reserved **Wood Products** Logistics / Distribution IT / Data Centers Advanced Mfgr / Bio **Food Processing Industry Type** -Dimensional Lumber -Wood Conversion -Wood Processing Target Markets & Potential Investment \$1,000-1,200 \$100-200 Investment \$300-500 \$450-700 \$ per SF Med - High Demand Low - Med Traffic Med Med Low Low Med Med - High Med - High Demand Low - Med Low - Med Med - High Water Low Low 36 Wastewater Med - High Med - High Demand Low - Med Low - Med Low - Med Low Low Med - High Med - High Demand Med - High Low - Med Low - High Power High Low









# Opportunities & Assets for Virginia



# Communities Successful in Economic Development...

- Are Pro-Active and Intentional about Infrastructure Investment
- Understand it's a Long-term Game
- Have a **REGIONAL Economic Development Strategy** and **EXECUTE** the Plan
- Understand their Assets and Sites
- Understand their Cost & Revenue Drivers
- Remove RISKS for Prospects
- ✓ Have "fast-track" permitting procedures in place





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## Parting thoughts (and quotes)...

"Luck is what happens when preparation meets opportunity"

Seneca, Roman Philosopher



"The will to win is not nearly so important as the will to prepare to win"

Vince Lombardi, Green Bay Packers



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## What can we do to help?



### Thanks for your time!



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### Thanks for your time!

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